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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/297,703	07/19/1999	STEPHEN A. JOBLING	CASE#1637	1158
7590	01/08/2004		EXAMINER	
KAREN G. KAISER NATIONAL STARCH AND CHEMICAL CO. P.O. BOX 6500 BRIDGEWATER, NJ 08807			KUBELIK, ANNE R	
			ART UNIT	PAPER NUMBER
			1638	

DATE MAILED: 01/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/297,703	JOBLING ET AL.
	Examiner	Art Unit
	Anne R. Kubelik	1638

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 9/29/03.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 33-40, 42, 60-65 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 33-35, 42 and 60-65 is/are allowed.
- 6) Claim(s) 36-40 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 20 November 2002 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.
- 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
 - a) The translation of the foreign language provisional application has been received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____.
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

1. Claims 33-40, 42 and 60-65 are pending.
2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
3. The rejection of claims 41 and 43-59 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for isolated cassava nucleic acids with 88% identity to SEQ ID NO:28 and encoding SBEII, and nucleic acids encoding SEQ ID NO:29, methods of using those nucleic acids to alter starch properties in cassava, and plants transformed with those nucleic acids, does not reasonably provide enablement for methods of using those nucleic acids to alter starch properties in other plants, nor for nucleic acids encoding effective portions of SEQ ID NO:29, or for 300-600 bp long nucleic acids that have 88% identity to SEQ ID NO:28 and encode SBEII, methods of using those nucleic acids, and plants transformed with those nucleic acids is withdrawn in light of their cancellation and in light of Applicant submission of new claims drawn to cassava nucleic acids with 88% identity to SEQ ID NO:28, methods of using those nucleic acids to alter starch properties in cassava, and plants transformed with those nucleic acids
4. The rejection of claims 41 and 43-59 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention for the reasons above.

Claim Objections

5. Claim 37 remains objected to because it starts with an improper article.

The objection is repeated for the reasons of record as set forth in the Office action mailed 27 May 2003, as applied to claims 34-35, 37-40, 42-46 and 49-56. Applicant's arguments filed 29 September 2003 have been fully considered but they are not persuasive.

Applicant urges that they have corrected each of the informalities (response pg 10).

This is not found persuasive because this one remains.

Claim Rejections - 35 USC § 112

6. Claims 36-40 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contain subject matter that was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The rejection is repeated for the reasons of record as set forth in the Office action mailed 27 May 2003, as applied to claims 36-41. Applicant's arguments filed 29 September 2003 have been fully considered but they are not persuasive.

Applicant urges that the specification does disclose a repeatable process to obtain the KV832 strain on pg 14 of the specification and cites Kiel et al as a teaching the method for construction of pKVB2 and KV832 (response pg 11-12).

This is not found persuasive. Kiel et al could not be considered because it was not sent. It is also noted that Kiel et al is cited on pg 13 of the substitute specification, not page 14. It is also noted that the specification does not teach the mutation in *g/gB* that is present in KV832.

Art Unit: 1638

7. Claim 38 remains rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter that Applicant regards as the invention. Dependent claims are included in all rejections. The rejection is repeated for the reasons of record as set forth in the Office action mailed 27 May 2003, as applied to claims 33-59. Applicant's arguments filed 29 September 2003 have been fully considered but they are not persuasive.

Claim 38 remains indefinite in its recitation of "and its complement". Claiming two products is improper; products should be claimed in the alternate. It is suggested that "and" be replaced with --or--.

Applicant urges that they have corrected the indefiniteness (response pg 13).

This is not found persuasive because this portion of claim 38 was not amended.

8. Claims 33-35, 42 and 60-65 are allowable.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne R. Kubelik, whose telephone number is (703) 308-5059. The examiner can normally be reached Monday through Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson, can be reached at (703) 306-3218. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service at (703) 308-0198.

Anne R. Kubelik, Ph.D.
December 22, 2003



AMY J. NELSON, PH.D
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600